



**Lubrizol**

PERFORMANCE COATINGS

# RESINS AND BINDERS

Lubrizol is a global innovator and manufacturer of diverse resin and binder technologies. These polymer solutions are widely used for paints for rigid substrates, including wood, metal, concrete, roofing and plastic. They are also commonly used on flexible substrates, such as paper, film, fabric and foil, as well as for adhesives for packaging, protection and construction. With decades of experience in specialty solvent- and water-borne solutions, Lubrizol resins and binders are highly engineered and ready to deliver desired protective and performance properties, enhanced aesthetic appeal, and resistance to chemicals, water and abrasion.

## Acrylic Emulsions

Lubrizol manufactures water-borne acrylic emulsions and copolymers that create high-performance coatings for textiles, papermaking, printing ink, paints and coatings, and adhesives. The trade names Carboset®, Hycar®, Carbobond™, Carbotac™, Hystretch™ and PrintRite™ stand for high quality emulsions. Our products provide differentiated and unique solutions that produce value-added coatings and products. Controlled processes lead to precise morphologies, like core shell and sophisticated raw material selection, and provide state-of-the-art self-crosslinking or formaldehyde-free technologies.

## Chlorinated Polymers

Lubrizol's line of chlorinated polymers is completely water-based and incorporates vinyl chloride, vinylidene chloride and a wide range of comonomers to meet the performance requirements of multiple end-use markets. These polymers are primarily designed for coating a wide variety of substrates and for applications such as the impregnation and saturation of fibrous materials like paper, nonwovens and textiles.

Our Vycar™ brand of vinyl chloride copolymer emulsions are ideal for applications that require flame retardancy, chemical resistance and resistance to scuffing and marring - such as textile coatings, wall coverings and resilient flooring. They are also used as heat-sealable binders and coatings for such items as automotive door panels and seating. Their heat-reactive nature gives them excellent adhesion to various substrates, including polypropylene.

## WHAT WE ADD MAKES THE DIFFERENCE.™

- ENHANCING THE APPEARANCE, FUNCTIONALITY, AND DURABILITY OF DIVERSE SUBSTRATES
- ENVIRONMENTALLY CONSCIOUS, WATER-BORNE SOLUTIONS
- IMPROVING THE EASE AND SPEED OF APPLYING COATINGS TO SURFACES
- PROVIDING AN ALTERNATIVE TO 2-COMPONENT, SOLVENT-BORNE SYSTEMS WITH 1-COMPONENT, WATER-BORNE SYSTEMS

[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)



Our Permax™ brand of Polyvinylidene chloride (PVDC) provides excellent barrier properties to oxygen and moisture vapor, enabling the formulation of corrosion inhibitive primers for metal surfaces.

### **Polyurethane Dispersions**

Water-borne aliphatic, aromatic, polyester and polyether urethane polymers are fully reacted, high molecular weight, colloidal dispersions that are available in a wide range of solids, hardness and gloss ranges. Sancure™ polymers are polyurethane dispersions (PUDs) that can be cross-linked with conventional water-borne cross-linkers to enhance protection properties. The Turboset™ line of 1K PUD polymers provides protection properties typical for cross-linked polymers without the use of external cross-linkers. All Sancure and Turboset products are easy to handle, readily applied using all conventional techniques, and are compatible with other water-borne polymers.

Sancure and Turboset polyurethane polymers are used in both commercial and industrial applications in many market areas. Coatings for wood, masonry, roofing, direct-to-metal, automotive interior, breathable sportswear and graphic arts are just a few of the markets served. Lubrizol polymers consistently add value to our customers' products, giving them a competitive edge in their markets.

Aptalon™ polyamide polyurethanes continues our long tradition of innovation in polyurethane dispersions. Aptalon products can be used to develop water-borne 1K coatings that achieve hardness and chemical resistance previously attainable only with solvent-borne 1K products.

Whether an application requires abrasion resistance, adhesion, water resistance, solvent resistance, rapid hardness development, flexibility, softness of hand, hydrolytic stability, durability, humidity resistance or any other specific performance property, Lubrizol can provide innovative solutions to meet the most specialized requirements. Product capabilities are constantly analyzed to optimize and enhance polymer properties for specific applications, old and new.

### **Solution Acrylics**

When it comes to solution acrylics, Lubrizol is in a position to offer unique products, technology and years of experience. Our Doresco® product line includes thermoplastic and thermosetting polymer solutions with different chemistries and functionalities. Solution acrylic polymers with hydroxyl, amine, carboxyl functionality – or even some polymers without functionality – could be the solution to many graphic arts and coating challenges. Applications include hot stamp foils, vacuum metallization, road marking traffic paints, pigment dispersions and exterior automotive refinish. Hydroxy functional acrylics can be cross-linked with isocyanate to yield high-performance 2K coatings for plastic, wood, metal and masonry substrates.

**Lubrizol Advanced Materials, Inc.**  
9911 Brecksville Road, Cleveland, OH 44141  
800.380.5397

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